

1. BOSC 2017 Nominations

Self Nomination:

Yes

Nominator Information

First Name

Last Name

Nominator Title

Street Address

City

State

Postal Code

Email Address

Phone Number

Mobile Phone

Nominee Information

First Name

Tim

Last Name

Verslycke

Nominee Title

Exempti

Street Address

Exemption 6

City

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Email Address

tverslycke@gradientcorp.com

Phone Number

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Mobile Phone

Employment Information

Place of Employment/Work:

Gradient

Work Street Address

20 University Road

Work City

Cambridge

Work State:

MA

Work Postal Code

02138

Work Phone Number

617-395-5000

Work Email Address

tverslycke@gradientcorp.com

Sector

Other - Write In (Required): Consultant

Qualifications

Primary Area(s) of Expertise

Ecology, environmental toxicology, ecological risk assessment, environmental fate and toxicity testing, product environmental safety, environmental stewardship, endocrine disruptors, pharmaceuticals, personal care products

Committee Preference(s)

Executive Committee

Safe and Sustainable Water Resources Subcommittee

Statement of Interest

My academic research and consulting career has been driven by my interest in the interface of research, policy, and science interpretation and communication. This interest, combined with my past experience, will allow me to be a meaningful and enthusiastic member of the BOSC should my nomination be accepted.

Skills/qualifications related to committee preference(s) specified

My background in both engineering and biological sciences provides me with the skills to both identify and research fundamental environmental research questions and engineer solutions. My background in both academia and as a consultant to a variety of clients, including industry and government, provides me with a good understanding of how research and science can inform decision-making and policy. My skills that are specifically relevant to the Executive Committee and Safe and Sustainable Water Resources Subcommittee are: environmental engineering, (aquatic) ecology, environmental (eco) toxicology, risk perception and communication, and risk assessment

Other Relevant Information

My prior engagement in scientific advisory committees (e.g., to the Flanders Marine Institute and the Center for Health and Environment of the Flanders Regional Government in Belgium), professional societies (e.g., president of regional chapter of the Society for Environmental Toxicology and Chemistry [SETAC], member of SETAC steering committees of global advisory groups related to pharmaceuticals and endocrine disruptors), EPA program reviews (EPA Endocrine Disruptor Screening Program) are relevant to my nomination, as well as my proven record of collaborating with industry and government scientists from around the world on key environmental issues.

CV/Resume URL

<https://gradientcorp.com/bio.html?id=36&staff=Verslycke>

2. CV/Resume

Please upload your CV/ Resume.

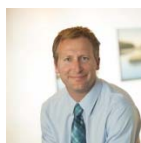
[Verslycke_CV.pdf](#)

3.

BOSC Nomination

Jun 06, 2017 16:45:26 Success: Email Sent to: tracy.tom@epa.gov

4. Thank You for your Submission!



Tim Verslycke, Ph.D.

Principal

tverslycke@gradientcorp.com

Areas of Expertise

Environmental (eco) toxicology, ecological risk assessment, ecotoxicity testing, product environmental safety, environmental stewardship, endocrine disruptors, pharmaceuticals, personal care products.

Education

Ph.D., Applied Biological Sciences, Ghent University, Ghent, Belgium, 2003

M.S., Bioscience-engineering/Environmental Technology, Ghent University, Ghent, Belgium, 1999

B.S., Bioscience-engineering, Ghent University, Ghent, Belgium, 1996

Professional Experience

2007 – Present GRADIENT, Cambridge, MA

Principal. Ecological risk assessment of contaminated sites, natural resource damage assessment, environmental safety assessment of consumer and industrial products, environmental stewardship, chemical/product screening and testing design and oversight, endocrine disruptors, pharmaceuticals in the environment.

2007 – Present WOODS HOLE OCEANOGRAPHIC INSTITUTION, Woods Hole, MA

Guest Investigator. Biology Department. Environmental toxicology studies.

2003 – 2007 WOODS HOLE OCEANOGRAPHIC INSTITUTION, Woods Hole, MA

Postdoctoral Researcher. Research on hormone signaling in marine animals and its potential disruption by chemical and other environmental stressors. National and international collaboration on research, protocol development, and policy-making for endocrine disruptors.

1999 – 2003 LABORATORY FOR ENVIRONMENTAL TOXICOLOGY AND AQUATIC ECOLOGY, GHENT UNIVERSITY, Ghent, Belgium

Ph.D. Researcher. Endocrine disruption studies using mysid shrimp. Laboratory research and field studies in Belgium, The Netherlands, and South Africa. Supervising students, teaching graduate-level courses in environmental toxicology and marine ecology, managing multi-stakeholder international projects on endocrine disruption, managing marine ecotoxicological research in the laboratory.

Professional Affiliations

Flanders Marine Institute (VLIZ Belgium); International Society of Regulatory Toxicology and Pharmacology; Society for Risk Analysis; Society of Environmental Toxicology and Chemistry (SETAC); Society of Environmental Toxicology and Chemistry, North Atlantic Chapter (NAC SETAC); Society of Toxicology (SOT).

Professional Activities

- Member, Steering Committee, SETAC's Global Endocrine Disruptor Testing and Risk Assessment (EDTRA) Advisory Group, 2014-2017.
- President, SETAC North Atlantic Chapter, 2013-2014.
- Member, Steering Committee, SETAC's Global Pharmaceutical Advisory Group, 2010-2013.
- Instructor, Short Course 'Endocrine Disruptors: The Good, The Bad, and The Regulations.' SETAC North Atlantic Chapter Annual Meeting, Freeport, ME, 2011.
- Participant, International Society of Regulatory Toxicology and Pharmacology conference on 'The Endocrine Disruptor Screening Program: What Can Screening Results Tell Us About Potential Adverse Endocrine Effects?' NIH, Bethesda, MD, 2009.
- Participant, International Society of Regulatory Toxicology and Pharmacology conference on 'Conducting and Assessing the Results of Endocrine Screening.' NIH, Bethesda, MD, 2008.
- Expert input on marine pollution module of the e-learning projects 'Expeditie Zeeleeuw' and 'Planet Zee,' Flanders Marine Institute, Ostend, Belgium, 2004-2005.
- Participant, seminar on the use of mysid shrimp for endocrine disruptor studies, US EPA's Atlantic Ecology Division, Narragansett, RI, 2005.
- Instructor, three-day training seminar on the use of mysid shrimp for endocrine disruptor studies, US EPA's Gulf Ecology Division, Gulf Breeze, FL, 2004.
- Participant, Program Review of US EPA's Endocrine Disruptor Screening Program, North Carolina, December 2004.
- Research Assistant Representative, Department Board Faculty of Bioscience Engineering, Ghent University, Ghent, Belgium, 2002-2003.
- Scientific Advisor, Center for Health and Environment of the Flanders Regional Government, Brussels, Belgium, 2002-2003.
- Scientific Committee Member, Flanders Marine Institute, Ostend, Belgium, 2001-2003.

Projects – *Ecological Risk Assessment and Natural Resource Damage Assessment*

PRP Group, NJ: Review chemical and ecological risk assessment data to support an equitable cost allocation at a large Superfund site containing tidal estuarine and marshland habitats.

Industrial Client, CT: At an industrial facility going through Connecticut's Voluntary Remediation Program, conducted a baseline ecological risk assessment (BERA) for a river and associated wetlands.

Industrial Client, CT: Evaluated the ecological protectiveness of a proposed sediment remedy for a fire protection pond impacted by historic polychlorinated biphenyl (PCB) contamination.

Industrial Client, CT: Evaluated the ecological protectiveness of a proposed sediment remedy for a drainage swale and associated wetlands impacted by historic PCB contamination.

Industrial Client, CT Evaluated current and post-remedial ecological risks, following planned remediation to comply with Connecticut's Remediation Standard Regulations (RSRs), at a site impacted by historic PCB contamination.

Industrial Client, CT: At an industrial facility going through the Connecticut's Voluntary Remediation Program, evaluated ecological risks to nearby wetlands from historic wastewater discharges.

Industrial Client, NJ: At a coastal Superfund site in NJ impacted by metal slag materials, evaluated US EPA's human health and ecological risk assessments in order to determine the appropriateness of the proposed cleanup levels.

Industrial Client, NY: Supplied ecological risk assessment support for a sediment Superfund site with an extensive industrial history dating back to the 1800s. Reviewed historical site data, evaluated previous and ongoing ecological investigations and risk analyses. Our analyses will be used to support the basis of an equitable and scientifically defensible cost allocation.

Municipal Client, CT: Conducted a screening level ecological risk assessment (SLERA) to assess potential risks from groundwater discharge from a landfill to a nearby surface water. Metals and volatile organic compounds were evaluated in surface water, groundwater, and sediments and potential risks to aquatic receptors were determined. Results were used to design a sampling plan to fill data gaps.

Industrial Client, CT: Conducted a BERA for a site located near a large river and containing an active manufacturing facility, around 700 acres of undeveloped land, brooks, and wetlands. The BERA was accepted by the Connecticut Dept. of Energy and Environmental Protection (CTDEEP) and US EPA Region I, who agreed that no further remediation was required to address ecological risks.

Industrial Client, KY: Evaluated technical approaches for developing Alternate Concentrations Limits (ACLs) for groundwater to surface water discharge from a manufacturing facility located next to a large river. Reviewed existing groundwater data and evaluated the relative sensitivity of benthic *versus* pelagic organisms for key chemicals of concern at the facility. Reviewed current state-of-the-science on mixing of groundwater with surface water in the hyporheic zone.

Industrial Client, NJ: Assisted with the development of sampling plans, conducted ecological risk assessments, and responded to US EPA and New Jersey Dept. of Environmental Protection (NJDEP) comments for a Superfund site surrounding a former paint manufacturing plant in Gibbsboro, New Jersey.

Industrial Client, Canada: Conducted an ecological risk assessment for environmental media affected by the historical presence of a preservative and estrogens in wastewater associated with a pharmaceutical manufacturing facility. Conducted a feasibility study to evaluate remedial options.

Industrial Client, CT: Evaluated ecological risks at a former aircraft engine testing facility. Results of a SLERA indicated the potential for ecological impacts in several upland areas, requiring further evaluation as part of a BERA. The SLERA and BERA were submitted to CTDEEP.

Industrial Client, CT: Evaluated risks to ecological receptors in a brook adjacent to a closed landfill at a former manufacturing facility for aircraft engines and components. Site-specific bioavailability and sediment toxicity were collected and results were used to develop a remedial action plan that was approved by CTDEEP and US EPA. Assisted with the preparation of a request for a site-specific Surface Water Protection Criterion that was accepted by CTDEEP.

Industrial Client, CT: Evaluating risks to ecological receptors at a large industrial manufacturing facility going through voluntary remediation in CT. To support the ERA, we are evaluating existing site data, identifying data gaps, developing and overseeing additional data collection, conducting the risk assessment, and assisting with agency negotiations.

Utility Company, WI: Evaluated the technical basis for a proposed Natural Resource Damages (NRD) settlement offer at a Great Lakes Superfund site. Performed a benchmarking analysis to quantitatively compare NRD settlements at other sediment sites to our client's offer. Our analysis considered the nature and extent of the ecological harm, as well as our client's potential role in causing the harm.

Montana Environmental Trust Group, MT: In coordination with state (*e.g.*, Montana Department of Environmental Quality) and federal (*e.g.*, US EPA, US FWS) beneficiaries and as part of a RCRA facility investigation, performed a BERA for a former lead smelter site in East Helena, Montana.

Industrial Client, CT: As part of review of the effectiveness of a Superfund remedy, and at the request of US EPA and CTDEEP, reviewed historical fish metal and PCB tissue data and coordinated additional fish tissue sampling in a pond at an old landfill. Additional tissue data were used to evaluate population-level effects in fish, higher trophic level ecological receptors, and human health.

Aircraft Manufacturer, CT: Assisted in preparing a response letter to US EPA to provide the technical basis for selection of a targeted set of chemicals of concern (COCs) to be carried forward for the development of Media Protection Standards (MPS) at a former aircraft manufacturing site. Conducted sediment triad studies to support the development of site-specific MPS values. Conducted a Corrective Measures Study (CMS) and assisted with the development of pre-design data to support an ecological risk-based wetland remedy.

Utility Company, WI: Prepared comments on US EPA's proposed Superfund site remedy, including a large sediment component driven by ecological concerns, for non-aqueous phase liquid (NAPL) and polycyclic aromatic hydrocarbon (PAH) impacts from historical wood treatment plant and manufactured gas plant (MGP) operations. Our comments were submitted to US EPA for consideration prior to a final remedy selection in the record of decision.

Research Organization Sponsored by Power Utility Companies: Prepared a summary of the risks of selenium to organisms in aquatic and sediment environments, including a review of case studies where selenium from coal ash caused documented adverse ecological impacts. Our report, which provides ecological risk assessment resources for selenium, is part of a larger reference library that is made available to all members of the utility company consortium.

Water Supplier, New Zealand: At the request of New Zealand's largest company in the water and wastewater industry, developed a risk-based discharge limit for the pesticide methoprene at its Mangere wastewater treatment plant. Methoprene is used to control insect (midge) nuisance from the plant to the surrounding local community. Presented our analysis and proposed discharge limit to the relevant regulatory authority, which was subsequently approved.

Industrial Client, CT: To comply with RCRA Corrective Action requirements, performed an ecological risk assessment for terrestrial and aquatic receptors potentially exposed to contaminants in soil, surface water, and sediment. Reviewed historical data, developed a conceptual site model, and designed a comprehensive sampling program to fill data gaps. Based on the site-specific data, evaluated contaminant bioavailability and ecological risk-based cleanup levels for the proposed remediation. Our risk assessment was prepared for CTDEEP review as a component of the remedy negotiations.

Energy Services Company, Brazil: Conducted a complex human and ecological risk assessment in a marine setting to define the need for remedial actions associated with a former barite mine in South America. The project included design and oversight of field sampling, dietary surveys, and presentation of the risk assessment results to regional regulators.

Industrial Client, CT: At a plant under RCRA Corrective Action requirements, developed a soil and sediment remedial strategy. Evaluated risks to terrestrial and aquatic receptors from exposure to metals, PCBs, and PAHs in soil, surface water, and sediment. Examined bioavailability and considered contribution from multiple urban background sources to develop a health-protective and cost-effective solution. The approach was presented to the CTDEEP.

Industrial Client, CT: Performed an ecological risk assessment (ERA) of a former aircraft manufacturing facility, defining the need for remediation in accordance with RCRA Corrective Action requirements. Evaluated risks to birds, mammals, and aquatic organisms from exposure to metals and organic compounds in soil and sediment. Designed a unique sampling program for evaluating the appropriate species in infrequently flooded areas of the site. Our ERA provided the basis of ecological risk-based remediation goals and was submitted to CTDEEP.

Projects – *Product Environmental Safety, Environmental Stewardship*

Washington State Department of Ecology: Prepared GreenScreen® assessments to support a safety evaluation of three chemicals, which will be used by the state to assist companies in identifying and selecting safer chemical alternatives. The assessment profiles were published on the Interstate Chemicals Clearinghouse (IC2) database.

Global chemical Company: Prepared GreenScreen® assessments to support a safety evaluation of different wood preservative alternatives.

Global Personal Care Products Company: Conducted an ecological risk assessment associated with the use of an antimicrobial soap in the US and EU.

Global Personal Care Products Company: Evaluated human health risks from potential exposure to triclosan *via* land-applied biosolids.

Global Personal Care Products Company: Reviewed published studies on the potential effects of triclosan on fish, conducted a state-of-the-science review of the toxicological mode of action of triclosan in ecologically-relevant species, and identified important areas of ongoing and future research.

Global Energy Services Company: Evaluated the environmental safety of hydraulic fracturing fluid components to be used in Australia.

Chemical Manufacturer: To evaluate the potential environmental impacts of amending an over-the-counter drug monograph for a sunscreen ingredient, performed a US FDA-compliant environmental assessment. Leveraged existing data to recommend a cost-effective environmental testing approach for the same ingredient under Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Global Energy Services Company: Led project assessing a comprehensive relative hazard evaluation system developed by the client for scoring and ranking its products. Reviewed all aspects of the system and developed a sensitivity analysis to assess possible alternative approaches. Currently extending application of the system to additional product lines, including hydraulic fracturing.

Global Cleaning Products Manufacturer: Developed a user-friendly guide defining potential adverse impacts on biological treatment systems (*e.g.*, waste water treatment plant failures) due to disposal of used cleaning products. The client used the guide to communicate best practices to its customers.

Trade Association: Assessed the relative ecotoxicity of vegetable oils to petroleum oils. Developed a robust literature-based assessment and compared regulatory requirements for the safe handling of both product groups.

Global Personal Care Products Company: Managed the development of a protocol to assess environmental risks associated with their ingredient portfolio.

Projects – *Pharmaceuticals*

Global Veterinary Pharmaceutical Company: Assisted with responding to US FDA comments on an Environmental Impact Assessment of a broad-spectrum antiparasitic drug used to treat cattle.

Multiple Pharmaceutical Companies: Designed and oversaw environmental fate and ecotoxicity testing to support EMA and/or US FDA submissions of a wide range of new human drugs, including hormone replacement, pain management, diabetes management, and antimicrobial drugs. Prepared EMA and US FDA-compliant environmental assessments and responded to EMA and US FDA comments.

Global Pharmaceutical Company: Developed a streamlined, yet environmentally-protective, approach for estimating Predicated No Effect Concentrations (PNECs) for Active Pharmaceutical Ingredients (APIs) that lack environmental toxicity data.

Global Pharmaceutical Company: Developed a screening framework to identify potential risk-driving APIs ("surrogate APIs") that could be used to define the need for and extent of remediation at a former drug synthesis facility. Our approach was accepted by the state.

Global Pharmaceutical Company: Developed protocol to generate environmental fate and effects data required for APIs for international drug registration, environmental risk assessments, and setting effluent compliance criteria.

Global Pharmaceutical Company: Developed a new fish estrogen receptor (ER) *in vitro* binding assay in collaboration with the Woods Hole Oceanographic Institution. Assay was used to evaluate the estrogenicity of individual APIs and API manufacturing plant effluents. Performance of fish ER assay was also evaluated against the E-SCREEN assay.

Global Pharmaceutical Company: Conducted an environmental assessment of risks associated with the use of a pharmaceutical compound to treat river blindness in Africa.

Projects – *National Ambient Air Quality Standards (NAAQS)*

Trade Association: Attended a US EPA workshop on policy-relevant science organized to inform US EPA's review of the secondary NAAQS for oxides of nitrogen and sulfur (NO_x/SO_x). Developed a summary of the key discussion topics presented during this meeting.

Trade Association: Conducted an independent scientific analysis of the welfare risk and exposure assessment and the policy assessment, which were used to support US EPA's proposed rule for ozone. Submitted written comments and provided public testimony to the US EPA's Clean Air Scientific Advisory Committee (CASAC).

State Environmental Agency: Organized and participated in a workshop focused on the scientific evidence for ozone effects and the societal implications of lowering the ozone NAAQS.

State Environmental Agency: As part of US EPA's NAAQS review for ozone, assisted the agency with written comments on the welfare risk and exposure assessment and the policy assessment.

Projects – *Regulatory Comment*

Environmental Professionals' Organization of Connecticut (EPOC): Reviewed a proposed amendment to the Significant Environmental Hazard Notification Statute for remediation sites in Connecticut. As part of our review, we evaluated the potential policy implications of the proposed amendment and the scientific basis of an analysis conducted by the Connecticut Dept. of Health in support of the amendment. Gradient's comments were submitted to CTDEEP.

Non-profit, Washington: For the Common Sense Alliance, prepared comments on proposed changes to critical areas ordinances for wetlands and fish and wildlife habitat conservation areas in San Juan County, Washington. Our comments focused on consistency of the proposed changes with existing regulations and regulatory guidance, the use of best available science, and the need and effectiveness of the proposed measures. Our comments were submitted to the San Juan County Council.

Environmental Professionals' Organization of Connecticut (EPOC): Reviewed proposed revisions to CTDEEP's Remedial Standard Regulations. Assessed the scientific basis of proposed groundwater volatilization and surface water protection criteria for petroleum hydrocarbon fractions. Our analysis and comments were submitted to CTDEEP.

Global Energy Services Company: Reviewed New York State's proposed guidelines for regulating natural gas hydraulic fracturing (HF) fluid additives and prepared a risk assessment for multiple potential spill and migration pathways. Our work was submitted to New York State Department of Environmental Conservation (NYSDEC) as part of the public comment process, to US EPA in response to its Request for Information to inform its national HF study, and presented at technical workshops on HF convened by US EPA.

Projects – *Endocrine Disruptors*

Society of Environmental Toxicology and Chemistry (SETAC) Pellston® Workshop: Invited expert participant in a 2016 workshop called "Guidance for Environmental Hazard and Risk Assessment Approaches for Endocrine-Active Chemicals (GEHRA): A Case Studies Approach."

US EPA – Office of Science Coordination and Policy: Served as co-author and lead technical expert on the Integrated Summary Report (ISR) of the Invertebrate (Mysid) Two-Generation Toxicity Test being proposed as a Tier 2 testing assay under US EPA's Endocrine Disruptor Screening Program.

Global Pharmaceutical Company: Developed a new fish ER *in vitro* binding assay. The assay was used to screen new APIs and environmental samples.

Belgian-American Educational Foundation Fellowship: Research project using a mode-of-action approach to understanding early-life stage effects and critical time windows of exposure in endocrine disruptor studies with mysid crustaceans.

Ocean Life Institute Postdoctoral Fellowship at Woods Hole Oceanographic Institution (WHOI): Research project on hormonal regulation and disruption of early development, molting, growth, and reproduction of crustaceans.

Federally Funded Research Project in Belgium (OSTC-PODO II): ENDIS-RISKS/Endocrine disruption in the Scheldt Estuary: distribution, exposure, and effects.

European Research Project: *In vivo* and *in vitro* evaluation of endocrine-disrupting compounds with invertebrate model organisms.

Ghent University Research Fund Project: Analytics and metabolization studies with endocrine disruptors (natural hormones and xenobiotics) in aquatic invertebrates.

European Research Project: The energy metabolism of the estuarine mysid *Neomysis integer* (Crustacea, Mysidacea) as a biomarker for endocrine disruption in estuaries.

Bilateral Research Project between Belgium and South Africa: Development of routine biological test methods for the assessment of endocrine-disrupting compounds in the environment, a complementary approach using *in vivo* and *in vitro* test endpoints.

Projects – Expert Testimony & Litigation Support

Law Firm: In the context of a RCRA citizen suit, prepared an expert report and provided expert testimony regarding the likely ecological protectiveness of a proposed remedy for treating conductivity in surface mine discharges in West Virginia.

Law Firm: In the context of a RCRA citizen suit, provided expert witness services regarding potential environmental risks associated with seeps and other releases resulting from historic disposal of glass manufacturing waste.

Law Firm: For a Natural Resource Damages (NRD) case at an oil refinery in the Caribbean, provided expert witness services regarding potential damages to marine ecological receptors.

Law Firm: Prepared an expert report regarding potential post-remediation impacts of chloride and total dissolved solids (TDS) in wastewater pond sediments on nearby vegetation.

Chemical Manufacturer: Provided technical support to evaluate potential sources of synthetic organic chemicals found in processed brine shrimp.

Law Firm, TX: Prepared an expert report and provided expert testimony regarding ecologically-based clean-up criteria for an active natural gas exploration site in Texas.

Projects – Coastal/Marine Environmental Research

New England Lobster Initiative Grant: A molecular approach to understanding lobster shell disease.

MIT Sea Grant: Development and *in situ* validation of *in vitro* assays for pesticides in coastal waters.

Woods Hole Sea Grant: Identifying differentially-expressed genes in shell-diseased *versus* healthy American lobster, *Homarus americanus*.

Ocean Life Institute Project at WHOI: Diapause regulation in marine copepods.

Publications – Peer Reviewed

Marty, MS; Blankinship, A; Chambers, J; Constantine, L; Kloas, W; Kumar, A; Lagadic, L; Meador, J; Pickford, D; Schwarz, T; Verslycke, T. 2017. "Population-relevant endpoints in the evaluation of endocrine-active substances (EAS) for ecotoxicological hazard and risk assessment." *Integr. Environ. Assess. Manag.* 13(2):317-330.

Matthiessen, P; Ankley, GT; Biever, RC; Bjerregaard, P; Borgert, C; Brugger, K; Blankinship, A; Chambers, J; Coady, KK; Constantine, L; Dang, Z; Denslow, ND; Dreier, DA; Dungey, S; Gray, LE; Gross, M; Guiney, PD; Hecker, M; Holbech, H; Iguchi, T; Kadlec, S; Karouna-Renier, NK; Katsiadaki, I; Kawashima, Y; Kloas, W; Krueger, H; Kumar, A; Lagadic, L; Leopold, A; Levine, SL; Maack, G; Marty, S; Meador, J; Mihaich, E; Odum, J; Ortego, L; Parrott, J; Pickford, D; Roberts, M; Schaefers, C; Schwarz, T; Solomon, K; Verslycke, T; Weltje, L; Wheeler, JR; Williams, M; Wolf, JC; Yamazaki, K. 2017. "Recommended approaches to the scientific evaluation of ecotoxicological hazards and risks of endocrine-active substances." *Integr. Environ. Assess. Manag.* 13(2):267-279.

Verslycke, T; Mayfield, DB; Tabony, JA; Capdevielle, M; Slezak, B. 2016. "Human health risks of triclosan in land-applied biosolids." *Environ. Toxicol. Chem.* 35(9):2358-2367.

Verslycke, T; Reid, K; Bowers, T; Thakali, S; Lewis, A; Sanders, J; Tuck, D. 2014. "The Chemistry Scoring Index (CSI): A hazard-based scoring and ranking tool for chemicals and products used in the oil and gas industry." *Sustainability* 6:3993-4009.

Boxall, ABA; Rudd, MA; Brooks, BW; Caldwell, DJ; Choi, K; Hickmann, S; Innes, E; Ostapyk, K; Staveley, JP; Verslycke, T; Ankley, GT; Beazley, KF; Belanger, SE; Berninger, JP; Carriquiriborde, P; Coors, A; DeLeo, PC; Dyer, SD; Ericson, JF; Gagné, F; Giesy, JP; Gouin, T; Hallstrom, L; Karlsson, MV; Larsson, DGJ; Lazorchak, JM; Mastrocco, F; McLaughlin, A; McMaster, ME; Meyerhoff, RD; Moore, R; Parrott, JL; Snape, JR; Murray-Smith, R; Servos, MR; Sibley, PK; Oliver Straub, J; Szabo, ND; Topp, E; Tetreault, GR; Trudeau, VL; Van Der Kraak, G. 2012. "Pharmaceuticals and personal care products in the environment: What are the big questions?" *Environ. Health Perspect.* 120(9):1221-1229.

Tarrant, AM; Franks, DG; Verslycke, T. 2012. "Gene expression in American lobster (*Homarus americanus*) with epizootic shell disease." *J Shellfish Res* 31(2):505-513.

Tarrant, AM; Behrendt, L; Stegeman, JJ; Verslycke, T. 2011. "Ecdysteroid receptor from the American lobster *Homarus americanus*: EcR/RXR isoform cloning and ligand-binding properties." *Gen. Comp. Endocrinol.* 173(2):346-355.

Tarrant, AM; Stegeman, JJ; Verslycke, T. 2010. "Altered gene expression associated with epizootic shell disease in the American lobster, *Homarus americanus*." *Fish and Shellfish Immunol.* 29(6):1003-1009.

Tarrant, AM; Baumgartner, MF; Verslycke, T; Johnson, CL. 2008. "Differential gene expression in diapausing and active *Calanus finmarchicus* (Copepoda)." *Mar. Ecol. Progr. Ser.* 355:193-207. doi: 10.3354/meps07207.

Noppe, H; Ghekiere, A; Verslycke, T; De Wulf, E; Verheyden, K; Monteyne, E; Polfliet, K; Van Caeter, P; Janssen, CR; De Brabander, HF. 2007. "Distribution and ecotoxicity of chlorotriazines in the Scheldt estuary (B-NL)." *Environ. Pollut.* 147(3):668-676.

Verslycke, T; Ghekiere, A; Raimondo, S; Janssen, CR. 2007. "Mysid crustaceans as standard models for the screening and testing of endocrine-disrupting chemicals." *Ecotoxicol.* 16:205-219.

- Noppe, H; Verslycke, T; De Wulf, E; Verheyden, K; Monteyne, E; Van Caeter, P; Janssen, CR; De Brabander, HF. 2007. "Occurrence of estrogens in the Scheldt estuary: A 2-year survey." *Ecotoxicol. Environ. Saf.* 66(1):1-8.
- Ghekiere, A; Fockedey, N; Verslycke, T; Vincx, M; Janssen, CR. 2007. "Marsupial development in the mysid *Neomysis integer* (Crustacea: Mysidacea) to evaluate the effects of environmental chemicals." *Ecotoxicol. Environ. Saf.* 66(1):9-15.
- Lock, K; Verslycke, T; Janssen, CR. 2006. "Energy allocation in brachypterous *versus* macropterous morphs of the pygmy grasshopper *Tetrix subulata* (Orthoptera: Tetrigidae)." *Entomol. Gen.* 28(4):269-274.
- Poelmans, S; Verslycke, T; Monteyne, E; Noppe, H; Verheyden, K; Janssen, CR; De Brabander, HF. 2006. "Testosterone metabolism of *Neomysis integer* following exposure to benzo(a)pyrene." *Comp. Biochem. Physiol. B: Biochem. Mol. Biol.* 144(4):405-412.
- Verslycke, T; Goldstone, JV; Stegeman, JJ. 2006. "Isolation and phylogeny of novel cytochrome P450 genes from tunicates (*Ciona* spp.): A CYP3 line in early deuterostomes?" *Mol. Phylogenet. Evol.* 40(3):760-771.
- Ghekiere, A; Verslycke, T; Janssen, CR. 2006. "Effects of methoprene, nonylphenol and estrone on the vitellogenesis of the mysid *Neomysis integer*." *Gen. Comp. Endocrinol.* 147(2):190-195.
- Ghekiere, A; Verslycke, T; Fockedey, N; Janssen, CR. 2006. "Non-target effects of the insecticide methoprene on molting in *Neomysis integer* (Crustacea: Mysidacea)." *J. Exp. Mar. Biol. Ecol.* 332(2):226-234.
- Fockedey, N; Mees, J; Vangheluwe, M; Verslycke, T; Janssen, CR; Vincx, M. 2006. "Temperature and salinity effects on post-marsupial growth of *Neomysis integer* (Crustacea: Mysidacea)." *J. Exp. Mar. Biol. Ecol.* 326(1):27-47.
- Ghekiere, A; Fenske, M; Verslycke, T; Tyler, C; Janssen, CR. 2005. "Development of a quantitative enzyme-linked immunosorbent assay for vitellin in the mysid *Neomysis integer* (Crustacea: Mysidacea)." *Comp. Biochem. Physiol. A: Physiol.* 142(1):43-49.
- Noppe, H; De Wasch, K; Poelmans, S; Van Hoof, N; Verslycke, T; Janssen, CR; De Brabander, HF. 2005. "Development and validation of an analytical method to detect estrogens in water." *Anal. and Bioanal. Chem.* 382(1):91-98.
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Tim Verslycke, Ph.D.

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Verslycke, T; Janssen, CR. 2001. "The Energy Metabolism of *Neomysis integer*: A New Biomarker for Endocrine Disruption in Estuaries?" Presented at SETAC Europe 11th Annual Meeting, Madrid, Spain, May 6-10.

Other Publications

Verslycke, T. 2017. "Accurately defining natural resource injury" *Gradient Trends - Risk Science & Application* Issue 68:1.

Verslycke, T. 2012. "Assessing hazards of HF products?" *Gradient Trends - Risk Science & Application* Issue 55:1.

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Awards

- Best Risk Assessment Poster Award, Annual Society of Toxicology Meeting, 2009.
- Highlighted paper in Ecotoxicology and Environmental Safety, 2007.
- Belgian American Educational Foundation (BAEF) Postdoctoral Research Fellowship, 2005-2006.
- Annual Flanders Marine Institute (VLIZ) North Sea Award for Ph.D. Thesis, 2004.
- Woods Hole Oceanographic Institution Postdoctoral Scholarship, 2003-2004.
- SETAC North America Student Travel Award, 2002.
- Best poster award Flanders Marine Institute (VLIZ) Young Scientists' Day, 2001.

Other Qualifications

Reviewer

- *Aquatic Toxicology; Journal of Experimental Marine Biology and Ecology; Steroids; Ecotoxicology and Environmental Safety; Integrative and Comparative Biology; Pesticide Biochemistry and Physiology.*

Session Chair

- "Advances in Environmental Risk Assessment and Management of Pharmaceuticals in the Environment." Co-chair with Ericson J (Pfizer), Silverman K (Merck), Mills M (US EPA), and Eirkson C (US FDA) at SETAC North America 30th Annual Meeting, November 7-11, 2010, Portland, OR.
- "Pharmaceuticals in the Environment." Soils, Sediments and Water 24th Annual Conference, October 23, Amherst, MA.
- "Endocrine Disruption in Invertebrates: History, Regulation and Future Research." Co-chair with Meiller J. (US EPA) at SETAC North America 26th Annual Meeting, November 13-17, 2005, Baltimore, MD.

Languages

- Dutch (native), English, French, German, Portuguese (notion), Spanish (notion)